D-Link DCF-650BT Bluetooth Compact Flash Card

Manual



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REGULATORY INFORMATION

Federal Communications Commission Interference Statement

The equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instruction, may cause harmful interference to radio communication. However, there is no guarantee that interference will not occur in a particular installation. If this equipment dose cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected

Consult the dealer or an experienced radio/TV technician for help.

FCC Caution: To assure continued compliance, (example - use only shielded interface cables when connecting to computer or peripheral devices). Any changes or modification not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

This device complies with Part 15 of FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

IMPORTANT NOTE:

FCC Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 2.5 cm between the radiator & your body.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

EUROPEAN COMMUNITY CE NOTICE

Marking by the symbol CE indicates compliance of this equipment to the R&TTE Directive 1999/5/CE. Such marking is indicative that this equipment meets or exceeds the following technical standards:

- EN 300 328
- EN 301 489 -1, EN 301 489 -17 •
- EN 60950 •

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Package Contents



Contents of Package:

- One Bluetooth Compact Flash Card
- One Installation CD with Drivers, Manual, and Bluetooth Software

If any of the above items are missing, please contact your reseller.

System Requirements:

You must have at least the following:

PC

- Windows XP/Me/2000/98 Second Edition
- One Available USB Port
- CD-ROM Drive
- Microsoft ActiveSync 3.0 or above (free download from www.microsoft.com) PDA
- Type 1 Compact Flash Card Slot
- Windows CE 3.0 (Pocket PC 2000/2002)
- Type A USB Connector

Introduction

Thank you for purchasing the DCF-650BT! The DCF-650BT is a versatile and complete wireless solution for your personal area network. Upgrade your legacy PDA to Bluetooth connectivity with the DCF-650BT, and connect quickly and simply to all of your personal mobile devices at home or at the office! The DCF-650BT comes complete with Bluetooth software for your Pocket PC, enabling you to manage, configure, and connect to your Bluetooth enabled devices. This manual provides detailed instructions on how to use the software included with your DCF-650BT.

Features and Benefits

Bluetooth 1.1 Compliant

The DCF-650BT adheres to industry standards and is Bluetooth 1.1 compliant. This ensures interoperability with a wide range of Bluetooth 1.1 devices that share the same Bluetooth configurations and profiles that the DCF-650BT supports.

Low Power Operation

Designed for the mobile user, the DCF-650BT uses a low power radio transmitter which maximizes your PDA's operating time.

Anytime, Anywhere Wireless Connectivity

The DCF-650BT makes it easier than ever to connect to your Bluetooth enabled devices. Connect to your personal area network at home, at your office, or while you are traveling to a remote site equipped with a Bluetooth network. The DCF-650BT connects quickly and easily to other Bluetooth 1.1 compliant devices.

Bluetooth Software Included

Everything you needed to get up and running with the DCF-650BT is provided. The included Bluetooth software has a simple and intuitive interface that allows you to quickly configure options for your wireless connections.

Hardware Installation

Installing the Bluetooth Software

Insert the DCF-650BT into your handheld device.



Before proceeding, make sure that you have ActiveSync installed on the computer that you are using to install the drivers. ActiveSync will sync your computer and PDA and enable you to install drivers on your PDA. You can download ActiveSync for free from Microsoft's website www.microsoft.com.

Insert the driver **DCF-650BT Driver CD** into your CD-ROM drive. You will see the following screen.

Click Install Drivers



If the Autorun screen does not automatically start, click on **Start** > **Run**, enter "**D:\Autorun.exe**" and click **OK**. "**D**" represents the letter of your CD-ROM drive. Replace it if your CD-ROM drive is a different letter.

Note: If the connection between the PDA and the computer is not ON, an error message will appear. Check if your cable connections are secure and that ActiveSync has established a connection before proceeding.

Connect your PDA to the computer you are using to install the drivers using the type A USB cable provided with your PDA.







When this next screen is displayed, follow the onscreen instructions on your PDA to complete the driver installation.

Click OK







Completing the Driver Installation

The Bluetooth software will automatically be downloaded to your PDA. This screen will appear to indicate successful installation.

Select Add a shortcut in the Start menu for easy access to the Bluetooth Manager. Click OK to exit this screen.

Installing WIDCOMM B 1:51; WIDCOMM BTW-CE The installation was successful

In order to complete the installation, please reset your device.

How to use Bluetooth (after reset):

- Connections are established by usiny Bluetooth Manager, available from: Start > Programs > Bluetooth Mana.
 - Add a shortout in the Start menu
- The Eluctooth icon at the bottom of the screen allows you to configure Bluetooth and adjust various setting
- Within Bluetooth applications, help is available via Start > Help



Be sure to RESET your PDA to complete the driver installation.

1 Introduction To the Bluetooth Software

BTW-CE is the Bluetooth software included with your DCF-650BT and is the solution for the seamless integration of Bluetooth technology into devices that use the Pocket PC operating system. It provides Pocket PCs with the means to:

- Locate other Bluetooth devices in the immediate vicinity (inquiry)
- · Discover the services that those devices offer (discovery)
- · Connect to, use, and disconnect from those services
- · Enable/disable individual services
- Security features, on a service-by-service basis, including:
 - Authentication
 - Authorization
 - Encryption.

This User's Guide is divided into four major sections:

- · Introduction to the Bluetooth Software
- · Using the Bluetooth Control Panel
- · Using the Bluetooth Manager
- Using Remote Device Services—an overview of how to use services provided by remote Bluetooth devices.

1.1 BLUETOOTH ICON

The Bluetooth icon in the lower-right corner of the Today screen provides quick access to the Bluetooth Control Panel.

It also provides visual feedback about whether Bluetooth is "on" or "off":

- When BTW-CE is active ("on") the Bluetooth icon is blue 💦
- If BTW-CE is disabled ("off") the icon appears grayed with a red X in the lower right corner [].

1.2 APPLY POWER TO THE BLUETOOTH HARDWARE

If the Bluetooth hardware is an integral part of the device (built-in), the first screen of the Bluetooth Control Panel has ON/OFF buttons to enable/disable power ON/OFF your device (Figure 4). To Access the Bluetooth Control Panel, tap the Bluetooth icon , which is located in the lower-right corner of the screen.

When the Bluetooth hardware is an expansion device (Compact Flash Card), power is enabled/disabled by inserting/removing the card (Figure 5).

1.3 UNINSTALL A PRIOR VERSION OF BTW-CE

If you have a version of BTW-CE prior to vesion 1.2.0, it must be uninstalled before installing version 1.2.0 or later. For versions 1.2.0 and later this step is not necessary. To uninstall BTW-CE:

- 1. Connect the handheld computer, via its cradle and Microsoft ActiveSync, to the desktop computer.
- 2. On the desktop computer, in the system tray, double-click the ActiveSync icon.
- 3. From the ActiveSync Tools menu, click Add/Remove Programs...
- In the list of applications installed on the handheld computer, clear (uncheck) WIDCOMM BTW-CE. Verify that WIDCOMM BTW-CE is still highlighted (see Figure 1).
- Click the Remove button (*DO NOT* click the OK button, see Figure 1).
- 6. Click OK to acknowledge the Remove Application notification.

The prior version of BTW-CE will be uninstalled on both the handheld and desktop computers (follow any additional on-screen instructions that may appear on the desktop computer to complete the uninstall process).

Figure 1: ActiveSync's Tools > Add/Remove Programs... dialog box

🐴 Add/Remove Programs		X		
Select a program's check box if you want to install it on your mobile device, or <u>clear the check box if you want to remove</u> the program from your device.				
Note: If a program that you installed is not listed, the not designed to be used on your mobile device.	ne program	was		
Soft Agency AuctionTracker	71.1 K			
Soft Agency WAP Navigator	296.5 K			
Clear (uncheck) this box	0.0 K			
	363.3 K			
	2,401.7 K	-		
Program description WIDCOMM BTWCE				
Space required for selected programs:	0.0 K			
Space available on device:	4,578.8 K			
Install program into the default installation folder				
Remove from both locations Click here to uninstall				
To remove the selected program from both your device and this computer, click Remove.	<u>R</u> emove			
IK Cancel	<u>H</u> elp			

2 Using the Bluetooth Control Panel

BTW-CE provides a Control Panel to adjust Bluetooth settings. To access the Control Panel, in the lower-right corner of the Today screen, tap the Bluetooth icon . BTWCE can have multiple saved configurations. Individual configuration sets are saved in profiles, which can be quickly loaded to meet the appropriate situation. See Section 2.1.1 for more information about profiles.

The Control Panel has seven tabs. All tabs are not visible on the screen at the same time; use the arrows (Figure 2) to the right of the tab names to scroll back-and-forth and expose the different tabs.

Figure 2: Control Panel Tabs, Scroll Arrows



The Control Panel's tabs are (see Figure 3):

- General
 - User profile selection
 - Bluetooth status (ON/OFF) indicator
 - Hardware power control (ON/OFF).
 - Shortcut to the Bluetooth Manager.
- · Accessibility
 - Set the device name
 - The device's Bluetooth Device Address (BDA)
 - · Determine which remote devices are allowed to connect
 - Determine whether remote devices can "see" this Pocket PC.
- Service tabs—BTW-CE can provide four services. They are:
 - File Transfer—set the highest-level directory on this Pocket PC that remote devices will be able to access.
 - Information Exchange—Set the default business card (Pocket Outlook contact entry)
 - Serial Port—Bluetooth serial port information
 - Dial-up Networking—configure the COM port, baud rate and flow control.

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- About—there are no configurable options on this tab.
 - Software version information
 - Copyright information

Each of these tabs is explained in detail in the remainder of this section.

Figure 3: Configuration Overview



2.1 GENERAL TAB

There are three options on this screen:

Current Profile:

To change the active profile, tap the down-arrow in the "Current profile:" field and select the new profile from the drop-down list. The current profile will be saved, and the settings from the selected profile will be loaded. To add, delete, or rename a profile, tap (see Section 2.1.1).

- Bluetooth Status:
 - Integrated Bluetooth hardware (Pocket PC with built-in Bluetooth) (see Figure 4)
 - External Bluetooth hardware (CompactFlash or PC expansion card) (see Figure 5 on the next page).
- Bluetooth Manager:

Tapping on this shortcut starts the Bluetooth Manager.

When Bluetooth is OFF, no connections, incoming or outgoing, are possible. When Bluetooth is ON, Bluetooth is always "up" and battery drain is significantly greater than when Bluetooth is disabled. *To conserve battery power, do not enable Bluetooth when it is not being used.*

Figure 4: Control Panel, General tab, integrated hardware



Figure 5: Control Panel, General tab, external hardware



2.1.1 Profiles

Profiles are accessed and managed from the Control Panel, General Tab. They allow:

- Different users to quickly re-configure a Pocket PC according to their personal preferences. For example, if multiple users share the same Pocket PC, but each uses it for a different purpose, selecting a preconfigured profile will alter the settings to those of the appropriate user.
- A single user to quickly re-configure a Pocket PC for a different environment. If a PDA is used primarily at the office, but also used when traveling, pre-configured profiles are useful, for example, more secure settings for hotel, airport, or similar "public" environments.

All Bluetooth settings are saved in the active profile. A profile named "Office," for example, may include Bluetooth Authentication and Encryption settings, and connection shortcuts to specific services on work-related Bluetooth devices. A profile named "Public" on the same device may only allow the owner's laptop

computer to connect to the Pocket PC. When the "Public" profile is selected, only the Bluetooth settings related to that profile are active.

When the Pocket PC is turned off, BTWCE saves the most recent profile and reloads that profile the next time the device is turned on.

The Profile options (available from the Control Panel, General Tab) are:

- A list of existing profiles—when BTWCE is started for the first time the only profile listed will be "Default." To enable a profile, tap it.
- accesses a screen from which you can:
 - Add a profile
 - Rename a profile
 - Delete a profile.

2.1.1.1 Create A New Profile

- 1 From the Today screen, tap the Bluetooth icon 8.
- 2. From the General tab, tap 🔬
- 3. From the Add/Delete Profiles screen:
 - a) Tap the New button
 - b) Enter a descriptive name for the new profile, for example, "Office."
 - c) Select an existing profile on which to base the new profile.
- 4. Tap the OK button.

The new profile does NOT automatically become the active profile; to activate the new profile, select it from the "Current Profile" field on the General Tab.

2.1.1.2 Rename or Delete a Profile

- 1 From the Today screen, tap the Bluetooth icon 8.
- 2. From the Bluetooth Control Panel, General tab, tap 🔬
- 3. From the Add/Delete Profiles screen:
 - a) Tap a profile name, then the Rename button and enter the new name.
 - Or
 - b) Tap a profile name, then the Delete button.

2.1.1.3 Save Configuration Settings In A Profile

When you make changes to the Pocket PC's configuration, those changes are automatically saved when you select a different profile, turn Bluetooth off, or shut down the Pocket PC.

To save a specific configuration:

- 1. Select (or create and then select, see Section 2.1.1.1) the desired profile (for example "Travel") from the Current Profile field on the General Tab.
- 2. Setup the Pocket PC (see Section 2) so that it behaves in the desired manner.
- 3. Tap OK
- 4. Close the Control Panel; the changes are saved automatically.

To use the Travel profile and its associated configuration in the future, from the Control Panel, General Tab, select "Travel" from Current Profile drop-down list.

To avoid saving unwanted changes to a regularly used profile, create a new profile that is based on the profile currently in use (see Section 2.1.1.1), select the new profile, and then make the changes while the new profile is active.

NOTE: If Bluetooth is OFF, changes will not be saved. The error box to the right appears unless **Don't show this message again** has been selected.



2.2 ACCESSIBILITY TAB

Figure 6: Control Panel, Accessibility tab

🎥 Settings 🛛 📢 12:02 🚳			2:02 🐽	
Bluetooth	: Accessil	bility		
Device Id	entificatio	on		
Name:	My iPAQ	2		
Address:	50:C2:0	D:03:C4:F6		
Accessibi	lity			
Allow other devices to connect				
All devices				
O Paired devices only				
✓ Other devices can discover me				
General Ad	cessibility	File Transfer	Info 🖣 🕨	
			■	

All information on this tab is saved with the active profile, including the device name.

The options on the Accessibility tab are:

- Device Identification:
 - Name—the name of this device, as displayed to remote devices when the associated profile is active. To change the device name associated with this profile, highlight the name and enter the new name.
 - Address—the Bluetooth Device Address (BDA) of this device. This information is permanently associated with the Bluetooth hardware during the manufacturing process and cannot be changed.
- · Accessibility:
 - Allow other devices to connect—when this option is enabled, other devices are permitted to connect to this device. Two other options accessibility options are as follows:

- All devices—select this option to allow all devices to connect.
- Paired devices only—select this option to allow only devices that have a paired relationship (see Section 3.2.2) with this device to connect.
- Other devices can discover me—when this option is enabled, other Bluetooth devices can see and report this device.
 Even though remote devices cannot discover this device unless this option is checked, if a remote device has this device's Bluetooth Device Address, that device may still be able to connect to this device (see Note below).

NOTE: The ability of remote devices to connect is also subject to security restrictions and whether Bluetooth is enabled on this device.

2.3 BTW-CE SERVICE TABS

The functions that a Pocket PC can provide to other devices are called "Services." The services that this Pocket PC is capable of providing are:

- · File Transfer—file-related operations such as get/use/delete a file, etc.
- · Information Exchange—Send the default business card (Pocket Outlook contact) on request.
- · Serial Port—Bluetooth serial port operations. Bluetooth serial ports are used as a replacement for a physical cable between devices.
- Dial-up Networking—provide access, via a phone line or other access system, to a remote computer network such as an Internet service.

Each of these service tabs is explained in detail in the remainder of this section.

2.3.1 Common Options

All of the services have some common settings. Even though the options are the same, in each case they are specific to the service being configured on the individual tabs.

The common options are listed under the **About this service** heading on each individual service tab. They are:

- **Enable service:** check this option to have the service start when BTW-CE initializes. When this option is enabled the service is enabled and "listening" for connection attempts when Bluetooth is enabled.
- Authorization required: check this option to require that each attempt to establish a connection be individually authorized. When Authorization is enabled and a remote device attempts to connect to this service, BTW-CE asks if the connection should be permitted.

- Authentication (Passkey) required: check this option to require a passkey or a Link Key from the remote device before allowing the connection. When this option is enabled and a remote device attempts to establish a connection, the Bluetooth Passkey screen (Figure 7) appears. Enter the passkey to allow the connection to proceed, or tap the OK button to deny permission for the connection. If the notification is ignored, the connection attempt will time out (fail).
- Encryption required: check this option to require that all the data exchanged between this device and the remote Bluetooth device be encrypted.

Encryption depends on the key that is used for Authentication; if Authentication is not enabled, Encryption will not be available. Only the data exchanged by the Bluetooth devices is encrypted.

The individual services, and their unique options, are explained in the remainder of this section.

Figure 7: Bluetooth Passkey screen

*	Bluetooth Passkey 7:51a 🛞
8	Bluetooth Authentication
-	evice: MM_BG2100
Pa:	sskey: **** Cancel
Ple au	ow to use this screen ease enter a Passkey and tap OK to ithenticate a security request with e Device listed above.
	ap 'Cancel' to abort or deny the thentication request.
	Ⅲ

2.3.2 File Transfer Tab

Figure 8: Control Panel, File Transfer tab

🎊 Settings	୶€ 1:32 🛛 🚯
Bluetooth: File Transfer	
About this service	
Enable service	
Authorization required	
Authentication (PIN) re	quired
Encryption required	1
My shared folder	
\My Documents\Business	<u> </u>
General Accessibility File Tr	ansfer Info 💶 🕨
	- E

The options on this tab only affect *Incoming File Transfer connections*. All of the Common Options (see Section 2.3.1) are available.

There is one additional configurable item: "My shared folder," which allows you to specify the default File Transfer directory, the highest level directory on this Pocket PC that remote devices have access to.

To change the default File Transfer directory, tap ____, navigate to the desired directory, and then tap the OK button.

2.3.3 Information Exchange Tab

Figure 9: Control Panel, Information Exchange tab

🏂 Setting	5	4 € 1:42	œ
Bluetooth:	Information Excl	hange	
About this	service		
🔽 Enable	service		
Author	ization required		
Auther	ntication (PIN) requ	ired	
En	cryption required		
My business card (vCard)			
Card, My Salesman ABC Corp (800) 555-	1234		
File Transfer	Information Excha	ange Seri	• •
		E	≝ ^

The Common Options (see Section 2.3.1) on this tab only affect *Incoming Information Exchange connections.*

There is one additional configurable item: "My business card (vCard)".

The "My business card" information comes from a selected record in the Contacts list of Pocket Outlook. Information from the selected record is sent to remote devices on request. It is also the contact information that is sent when you select "Send your business card to one or more recipients" while using Business Card Exchange. The default selection is "none" (no information).

To select a vCard, tap γ_{E} , choose a contact from the list, and then tap OK. To discontinue sending contact information when it is requested, tap , choose "(none)" from the list, and then tap OK.

If you reach the contacts list by mistake, tap OK to return to the previous screen.

2.3.4 Serial Port Tab

Figure 10: Control Panel, Serial Port tab

🎊 Settings	√ € 1:46 🛛 🐽
Bluetooth: Serial Port	
About this service	
Enable service	
Authorization required	
Authentication (PIN) requ	ired
Encryption required	
Ports	
Inbound COM Port: 7	
Outbound COM Port: 8	
Information Exchange Serial Po	rt Dial-U 💶 🕨
	E

The options on this tab only affects *Incoming Serial Port connections*.

All of the Common Options (see Section 2.3.1) are available.

There are two additional, non-configurable items:

- · Inbound COM Port: the local communications port that is used for inbound serial connections.
- Outbound COM Port: the local communications port that is used for outbound serial connections.

The Inbound and Outbound COM ports are permanently assigned and cannot be changed.

2.3.5 Dial-up Networking Tab

Figure 11: Control Panel, Dial-up Networking tab

🎊 Settings		◀€ 1:49	•
Bluetooth: Dial-	Up Network	ting	
About this serv	ice		
🗌 Enable serv	ice		
Authorizatio	on required		
Authenticat	ion (PIN) requ	uired	
Encrypt	ion required		
Options			
COM Port:	1 🔹		
Baud rate:	57600	-	
Flow control:	Hardware (R	lts/Cts) 🔻	
Serial Port Dial-Up	o Networking	Version [• •
		Ē	≝ ^

The options on this tab only affect *incoming Dial-up Networking connections*. All of the Common Options (see Section 2.3.1) are available. There are three additional items:

- COM Port: select the communications port to be used.
- Baud rate: tap the down-arrow and select a baud rate from the dropdown list. The options range from 1,200 to 115,200 baud, in nine steps.
- Flow control: tap the down-arrow and select the type of flow control to be used from the drop-down list. The options are:
 - Off
 - Hardware (Rts/Cts).

2.4 ABOUT **T**AB

This tab provides:

- · Release Version information
- Copyright notice
- · Website address
- · Technical support email contact address
- An Advanced Button, which displays a screen that contains version information about the individual software modules that make up BTW-CE.

There are no configurable options on this tab.

Figure 12: Control Panel, About tab

bout					
e sectore		-			
for Windows® 4	LE (BIW-LE)				
99-2002 WIDCO	OMMA Toc				
	order inc.				
ved. dcomm.com					
	1000				
ipport@wi	dcomm.com				
		-			
1	Advanced			₹ 11:44	
	Marancoa	r 🖊 🚈 Se	ctings	- R 11:34	
	1	and the second se			
. Maharadian	About 1	Module	versions:		
letworking				University	
Up Networking	About 🔳	Modul	ē	Version	
Jp Networking		Modul BTBusi	e nessCard	1.2.4.38	
HUp Networking		Modul BTBusi BTCon	e nessCard nManagerCE	1.2.4.38 1.2.4.38	
Up Networking		Modul BTBusi BTCon BTCon	e nessCard nManagerCE nWizardCE	1.2.4.38 1.2.4.38 1.2.4.38	
-Up Networking		Modul BTBusi BTCon BTCon BTCilet	e nessCard nManagerCE nWizardCE Explorer	1.2.4.38 1.2.4.38 1.2.4.38 1.2.4.38 1.2.4.38	I
I-Up Networking		Modul BTBusi BTCon BTCon BTFilet BTTray	e nessCard nManagerCE nWizardCE Explorer /CE	1.2.4.38 1.2.4.38 1.2.4.38 1.2.4.38 1.2.4.38 1.2.4.38	I
al-Up Natworking		Modul BTBusi BTCon BTCon BTFilet BTTray BtCho	e nessCard nManagerCE nWizardCE Explorer /CE oserLib	1.2.4.38 1.2.4.38 1.2.4.38 1.2.4.38 1.2.4.38 1.2.4.38 1.2.4.38	
I-Up Networking		Modul BTBusi BTCon BTCon BTFilet BTTray BtCho BtCeSi	e nessCard nManagerCE nWizardCE Explorer /CE cserLib tack	1.2.4.38 1.2.4.38 1.2.4.38 1.2.4.38 1.2.4.38 1.2.4.38 1.2.4.38 1.2.4.38 1.2.4.38	I
Dial-Up Networking		Modul BTBusi BTCon BTCon BTFilet BTTray BtCho BtCeSi BtCeSi	e nessCard nManagerCE nWizardCE Explorer /CE coserLib cack endTo_Poom	1.2.4.38 1.2.4.38 1.2.4.38 1.2.4.38 1.2.4.38 1.2.4.38 1.2.4.38 1.2.4.38 1.2.4.38 1.2.4.38	
Dial-Up Networking		Modul BTBusi BTCon BTCon BTFilef BTTray BtChoi BtCeSi BtCeSi BtCeIf	e nessCard nManagerCE nWizardCE Explorer /CE coserLib cack endTo_Poom	1.2.4.38 1.2.4.38 1.2.4.38 1.2.4.38 1.2.4.38 1.2.4.38 1.2.4.38 1.2.4.38 1.2.4.38 1.2.4.38 1.2.4.38	1
ial-Up Networking		Modul BTBusi BTCon BTCon BTFilet BTTray BtCho BtCeSi BtCeSi	e nessCard nManagerCE nWizardCE Explorer /CE coserLib cack endTo_Poom	1.2.4.38 1.2.4.38 1.2.4.38 1.2.4.38 1.2.4.38 1.2.4.38 1.2.4.38 1.2.4.38 1.2.4.38 1.2.4.38	1

3 Using the Bluetooth Manager

The Bluetooth Manager allows you to set up connections and communicate with remote devices using Bluetooth. The Bluetooth Manager is accessed as follows:

- 1. From the Today screen, tap Start> Programs > Bluetooth Manager. - OR -
- 2. From the Today screen, tap Start > Bluetooth Manager. This option is available if you checked off **Add a shortcut in the Start menu** when you installed BTW-CE.

The Bluetooth Manager (see Figure 13):

- · Tabs:
 - My Shortcuts—displays shortcuts and establishes connections
 - Active Connections—displays active incoming and outgoing connections
- · Menus:

New

• Connect!—create a new connection shortcut using the Bluetooth Connection Wizard

Tools

- Paired devices—pair/un-pair with other devices
- Business Card Exchange—open the Business Card Exchange.
- View—controls the on-screen display (icons or list).
- Icons:
- Accesses the Bluetooth Connection Wizard, which helps you setup connections with remote Bluetooth devices. This icon is a shortcut to the New > Connect! menu item.

Accesses the Bluetooth Business Card Exchange screen. This icon is a shortcut to the Tools > Business Card Exchange menu item. It allows you to:

- Get a business card from a remote device
- Send your business card to a remote device
- Exchange business cards with a remote Bluetooth device.

These options are explained in detail in the remainder of this section.

Figure 13: Bluetooth Manager Menu/Toolbar

Bluetooth Manager Menu/Toolbar		
Displays preconfigured connections. Double-tap or tap-and-hold an icon to establish a connection.		
Displays only those conections which are currently "live."		
My Shortcuts Active Connections		
New Tools Yiew 🦉 🖭 🔤 🔺		
Starts the Bluetooth Connection Wizard (same as selecting New > Connect!) Opens the Business Card Exchange screen (same as selecting Tools > Business Card Exchange)		
Connect! Active Connections		
New Tools Yiew 😵 🖭 👘 🗮		
Paired devices My C Business Card Exchange		
New Tools View 🐌 🖭 🔤 🔺		
MyConnecti 🖌 List onnections		
New Tools View 🚯 🖭 🔤 🔺		

3.1 TABS

The two tabs at the bottom of the Bluetooth Manager screen are:

- · My Shortcuts
- · Active Connections

3.1.1 My Shortcuts Tab

The default tab on the Bluetooth Manager is My Shortcuts. This screen displays the shortcuts that have been created for connections to other devices. The icons provide visual feedback about the status of the connection (see Figure 14). Double arrows and a highlighted green device icon indicate an active connection.

Figure 14: Connection Status displayed by icon color



Connection Icons:

- · If the connection is not open—double-tap its icon to establish a connection
- If the connection is open—double-tap its icon to display the connection Status screen (Figure 15)

Connections can also be opened/closed, and other options accessed, using the tapandhold technique. If you tap a connection icon and hold the stylus in place for a few seconds, a context sensitive menu appears.

The options on the context sensitive menu depend on whether the connection is active or not.

3.1.1.1 Connection Open—Context Sensitive Menu Options

From the My Shortcuts screen, tap-and-hold a connection shortcut that is associated with an ACTIVE connection to access the context sensitive menu.

The Menu options are:

- Disconnect-close the open connection
- Status-select this option to display the Connection Status screen (Figure 15)

3.1.1.2 Connection Status Screen

This screen displays:

- The connection's name
- The remote device's name
- The connection status: Connected/Not Connected
- The length of time the connection has been active
- Activity information:
 - The amount of data Sent
 - The amount of data Received
- A graphic signal strength indicator.

Figure 15: Connection Status Screen



3.1.1.3 Connection Inactive—Context Sensitive Menu Options

From the My Shortcuts screen, tap-and-hold a connection shortcut that is associated with an INACTIVE connection to access the context sensitive menu.

The menu options are:

- Connect—select this option to establish a connection (double-tap default).
- Rename—select this option to rename the connection shortcut. This option is often used to rename shortcuts that were created in a group (see Section 1.1.1.1 for information about creating shortcuts). When multiple connection shortcuts are created at the same time, they are given default names and no option is provided at that point to change the default.
- Delete—select this option to permanently delete the connection shortcut.
- Properties—select this option to display the Connection Properties screen

(Figure 16).

3.1.1.4 Connection Properties Screen

This screen displays:

- The connection's name
- Connection Properties—non-configurable information about the remote device, including:
 - The remote device name
 - The remote device Bluetooth Device Address (BDA)
 - The name of the service on the remote device that this shortcut accesses.
- Security—enable/disable Authentication and Encryption.
- Profiles—a list of the available profiles on this device. To assign, or remove, this connection shortcut to/from a profile, select or clear the profile's associated check box.

Figure 16: Connection Properties screen

Connection Properties MM_BG2100: LAN Access Device name: MM_BG2100 Device address: 00:03:61:80:02:47 Service name: LAN Access Service name: LAN Access Security Authentication Encryption Enable Authentication Encryption Encryption not available Unless Authentication is Profiles Shortcut appears in Another Profile Shortcut does not appear Test Profile Shortcut does not appear	🍠 BTConnManagerCE 🛛 📢 8:30 🐽	
Device name: MM_BG2100 Remote device name Device address: 00:03:61:80:02:47 Remote device BDA Service name: LAN Access Service on remote device Security Authentication Enable Authentication Encryption Encryption not available Profiles enabled Another Profile Shortcut appears in checked profiles Test Profile Shortcut does not appear in unchecked profiles	Connection Properties	
	Device name: MM_BG2100 Device address: 00:03:61:80:02:47 Service name: LAN Access Security Authentication Encryption Profiles V Default Another Profile	Remote device name Remote device BDA Service on remote device Enable Authentication Encryption not available unless Authentication is enabled Shortcut appears in checked profiles Shortcut does not appear

3.1.2 Active Connections Tab

This tab displays the currently active Outgoing and Incoming Connections on the Pocket PC.

To the right of each active connection icon is a signal strength indicator (Figure 17).

Tap-and-hold a connection to access a context sensitive menu. The menu options are:

- · Disconnect—close this connection
- Status—display the connection Status screen (Section 3.1.1.2 and Figure 15).

Figure 17:	Active	Connections scre	en, signal strength
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Connection Icon	Signal Strength Legend
	• • • • • • • • • • • • • • • • • • •
Signal Strength	Red—Poor signal: connection loss likely
Indicatior	Yellow—Weak signal: connection loss possible
	Green—Good-to-Strong signal

3.2 MENUS

There are three menus on the bottom of the Bluetooth Manager. They are:

- · New
- · Tools
- · View.

3.2.1 New

The New menu has only one option; Connect!

Connect! starts the Bluetooth Connection Wizard, which walks you through the process of creating a connection. The first screen lists several types of connections you can create. Choose the type of connection, then click **Next**. The next pages(s) will guide you through establishing the parameters of the desired connection. The exact content of the page(s) depends on the type of connection being created. On any given page, where applicable, choose **Next** to move to the next page, or **Back** to return to the previous page to make your changes.

Figure 18: Connection Wizard, specific service chosen, last screen



3.2.2 Tools

The Tools menu has two options. They are:

- · Paired devices
- · Business Card Exchange

3.2.2.1 Paired devices

When two devices are paired , they share, and exchange prior to each connection, an internally generated security key. This security key, called a Link Key, is based on a unique Bluetooth Device Address, a random number, and a user-defined password.

To pair with another device:

- 1. From the Bluetooth Manager, Tools menu, select "Paired devices"
- 2. On the Paired devices screen, tap Add
- 3. On the Device Pairing screen:

a) 🛛 Tap 🔬

- b) Tap a device on the "Select a Bluetooth device" screen to return to the prior screen and populate the "Device" field.
- c) Enter the correct password in the "Passkey" field
- 4. Tap OK.
- To Remove a Paired Relationship
 - 1. From the Bluetooth Manager, Security menu, select "Paired devices"
 - 2. Tap a device name to select it
 - 3. Tap the Remove button, and then tap Yes in the confirmation dialog.

3.2.2.2 Business Card Exchange

Business Card Exchange is accessible from:

- An icon on the Bluetooth Manager's menu bar
- From Tools > Business Card Exchange

Business Card Exchange allows you to:

Send your business card to one or more remote devices. Request a business card from one or more remote devices. Exchange business cards with one or more remote devices.

NOTE: To Send or Exchange business card(s) you must first specify your default business card in the Bluetooth Control Panel, Information Exchange tab (see Section 2.3.3).

To Send, Request or Exchange Business Cards

- 1. From the Bluetooth Manager, tap the business card icon s.
- 2. Tap the Send, Request or Exchange icon, as appropriate.
- 3. From the Bluetooth Browser screen, tap the name of the remote device and then tap OK.

3.2.3 View

The View menu has two options. They are:

- Icons—select this option to view the on-screen shortcuts as large icons
- · List-select this option to view the on-screen shortcuts in list format.

3.3 Icons

There are two icon shortcuts on the bottom the Bluetooth Manager screen. They are:

- New Connectiona shortcut to the New > Connect! menu item. See Section 3.2.1 for information on how to create a new connection.
- Business Card Exchangea shortcut to the Business Card Exchange menu item. See Section 3.2.2.2 for information on how to use Business Card Exchange.

4 Bluetooth Browser

Various BTW-CE applications require you to select the device you want to connect to. For instance, from the Bluetooth Manager, when creating a connection to explore a Bluetooth device, you must select the device to connect to (See Figure 19).

Figure 19: A screen example where you are required to select a device



Whenever you are required to select a device, the **Bluetooth Browser** window automatically shows up and starts searching for other Bluetooth devices (see Figure 20). As the search progresses, devices will gradually be listed in the window. To select a particular device, simply tap on it (whether the search is ongoing or stopped). This will close the window and return to the previous screen.

Figure 20: The Bluetooth Browser window allows you to select a Bluetooth device



The search automatically terminates after a few seconds. You can interrupt it by tapping the **Stop** icon **3** at the bottom left of the screen. Once stopped, you may restart the search(i.e. refresh the list)by tapping the **Refresh** icon (2). Note that in some instances, it may be necessary to refresh the list once or twice to "find" all Bluetooth devices.

Located at the bottom of this wizard screen (Figure 21) are:

- A drop-down menu¹ with two options:
- Preferred²—when this option is selected, the wizard attempts to display only those devices that offer the desired service.
- All devices—select this option to have the wizard display all devices in the vicinity, without regard to the type of service(s) they offer.
- The View menu, which has two options:
 - Icons—displays the found devices as large icons
 - List—displays the found devices in a list.
- An icon—the icon that is displayed is determined by what the wizard

is doing:

So The wizard is searching for devices. When the desired device appears on the screen, tap the device to select it and stop the search.

To stop an in-process search, tap 😢.

The wizard has completed its search for devices. Tap to search again or refresh the screen.

Cancel button—tap this button to close the "Select a device:" screen and return to the previous screen without changing the selected device.

¹ In some cases, the drop-down menu is not shown when only one type of device is shown.

²Another term may be used where applicable (e.g. "Phones")

Figure 21: Bottom of the Select a device wizard screen (composite overview)



5 Using Remote Device Services

This section provides overview instructions for using services provided by other devices.

5.1 SERIAL PORT

The use of a Bluetooth wireless serial port connection is identical to the use of a physical cable serial port connection between two devices.

As with a physical connection, the application that will use the connection must be configured to use the correct serial port.

To determine the communications port assigned to the Bluetooth serial port:

- 1. From the Today Screen, tap the Bluetooth icon to open the Bluetooth Control Panel.
- 2. Use the scroll arrows at the bottom-right of the screen to expose the Serial Port tab, and then select the Serial Port tab. The Outbound COM Port is listed in the lower portion of the screen. Configure the application that will use the Bluetooth Serial Port to send data to this port.

NOTE: For information about configuring your application's outbound COM port, refer to the application's documentation.

- 3. From Bluetooth Manager's My Connections screen open the Bluetooth serial port connection to the remote device.
- 4. Send/Receive data from the application.

5.2 DIAL-UP NETWORKING: CONNECT TO A REMOTE COMPUTER

Dial-up Networking allows you to connect to a remote computer via a phone line. Once connected, you can browse the Internet, check your email, etc.

The remote Bluetooth device that will provide the Dial-up Networking service must have access to a telephone system (either a physical or cellular connection).

Devices that might provide the Dial-up Networking service include:

- Bluetooth-enabled cellular telephones
- Bluetooth-enabled desktop computers that are attached to a telephone system
- Bluetooth modems

The remote computer to which you are connecting must also be attached to the phone system and capable of answering a call.

Figure 22: Dial-up Networking



To use Dial-up Networking:

- 1. Create a shortcut to the device that will provide telephone access (see Section 3.2.1).
- 2. From the Bluetooth Manager, My Connections tab, tap-and-hold the Dial-up Networking connection shortcut, and then select Connect from the pop-up menu.
- 3. On the Bluetooth: New Dial-up Connection screen (Figure 23, left), double-tap New Connection.
- 4. A Bluetooth: New Dial-up Connection screen (Figure 23, right) will appear:
- a) Enter a name for the connection
- b) If dialing outside of the default country setting, enter the country code
- c) If dialing outside of the default area code setting, enter the area code
- d) Enter the phone number to be dialed.
- 5. Tap OK

To proceed with the connection, you must complete the PocketPC screen(s) that follow(s). Refer to the Windows CE documentation for assistance.

After the connection is active, open a web browser on the Pocket PC.

Figure 23: Dial-up Networking, overview



5.3 BLUETOOTH FILE EXPLORER

Bluetooth File Explorer appears automatically when a File Transfer connection is established. It allows you to:

- · Navigate the directory structure of the remote device
- · View files and folders on the remote device
- · Create new folders on the remote device
- Send files to, and Get files from the remote device
- Delete and rename files on the remote device.

NOTE: File operations on the remote device are limited to the remote device's configured FTP root directory and its sub-directories.

Bluetooth File Explorer also allows you to set the folder on your Pocket PC that will receive inbound files. This folder is configurable on an individual basis for each connection shortcut.

Bluetooth File Explorer has two menus:

- File:
- Get
- Rename
- Delete
- Send a File...
- Create a Folder
- · Tools:

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Set Local Folder

Figure 24: Bluetooth File Explorer overview (composite screenshot)



5.3.1 Change the Remote Device Folder

To move down in the directory structure of the remote device, tap the new folder in the main portion of the Bluetooth File Explorer window.

To move up in the directory structure of the remote device, tap the downarrow to the right of the currently selected folder and select the new folder from the drop-down list.

5.3.2 File Menu

All of the instructions in the subsections that follow assume that there is an open File Transfer connection with a remote device.

5.3.2.1 Send a File to the Remote Device

To send a file to the remote device, from the File menu, tap Send a File to display the Open screen.

The options on the Open screen are:

- Folder—tap the down-arrow and select the folder that contains the file to be sent.
- Type—the only option is "All Files (*. *)
- A list of files in the selected folder; tap the file to be sent
- Cancel button—aborts the Send a File operation.

The selected file is sent automatically when it is tapped, without further intervention, and the Bluetooth File Explorer main screen reappears.

5.3.2.2 Create a Folder on the Remote Device

To create a folder on the remote device, navigate to the folder in which the new folder will be placed, and then, from the File menu, tap Create a Folder. Enter a name for the new folder while the default name (New Folder) is highlighted.

5.3.2.3 Get a File From the Remote Device

To get a file from the remote device:

- 1. Navigate to the folder on the remote device that contains the file
- 2. Tap the desired file to highlight it
- 3. From the File menu, tap Get

The file is copied to the local folder listed in the Local Folder field near the top of the screen.

This operation can also be performed using the tap-and-hold technique: tapand-hold the desired file and select Get from the pop-up menu.

5.3.2.4 Delete a File on the Remote Device

To delete a file on the remote device: tap the file to be deleted to highlight it, then, from the File menu, tap delete. Tap OK in the confirmation dialog box.

This operation can also be performed using the tap-and-hold technique: tapand-hold the desired file and select Delete from the pop-up menu. Tap OK in the confirmation dialog box.

5.3.3 Tools Menu

5.3.3.1 Set Local Folder

The local folder, i.e. the folder on the Pocket PC where incoming files are placed, can be configured on an individual basis for each connection shortcut.

To configure the local folder:

- 1. From the Tools menu, tap Set Local Folder.
- 2. Use the drop-down menu at the top of the screen to navigate to the desired folder.
- 3. Tap OK to return to the Bluetooth File Explorer main screen.

The Local Folder field is updated to reflect the new folder selection.

NOTE: The Local Folder information is associated with the shortcut to the connection that is open and is saved with the active profile. A different Local Folder can be associated with each File Transfer shortcut.

5.3.3.2 Refresh

To refresh the list of displayed files and folders on the remote device, from the Tools menu, tap Refresh.

5.4 SEND VIA BLUETOOTH

Pocket Outlook contacts, calendar items, and tasks can be sent individually or collectively to a remote device.



To send data via Bluetooth transfer:

- 1. From the Start menu, Programs, open Calendar, Contacts or Tasks
- 2. Highlight the item(s) to be sent
- 3. Tap-and-hold the item(s), and from the pop-up menu, tap Send via Bluetooth.
- 4. On the Select a Bluetooth device screen, tap the name of the destination device, and then tap OK.

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